Face Product Installation and Operation Guide

Q-see ®

Smart Security System

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IE Client Setting

IE Client Setting

QSee

Config Home ▶ Intelligence Analysis ▶ Face

System
Basic Information |
Date and Time |
Local Config

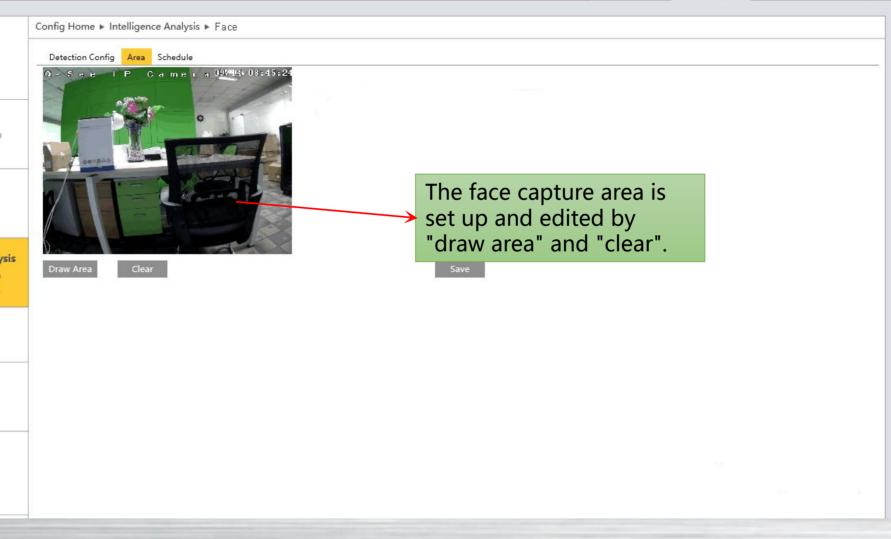**Image**
Display | Video/Audio | OSD
| Video Mask | ROI Config

Alarm
Motion Detection |
Alarm Server

Intelligence Analysis
Object Detection | Exception
| Tripwire | Intrusion | Face

Network

Detection Config   Area   Schedule

☑ Enable
☑ Save Source Information
☑ Save Face Information
Alarm Holding Time 20 Seconds
Trigger Alarm Out
☐ Alarm Out

☐ Trigger Snap
☐ Trigger SD Recording
☐ Trigger Email
☐ Trigger FTP

Save

Enable the camera face capture function and upload the captured image to NVR, unable to activate the face compare function of NVR.

Save both the captured face image and source image in path "System->Local Config->Save snapshots to"

IE Client Setting

The face capture area is set up and edited by "draw area" and "clear".

IE Client Setting
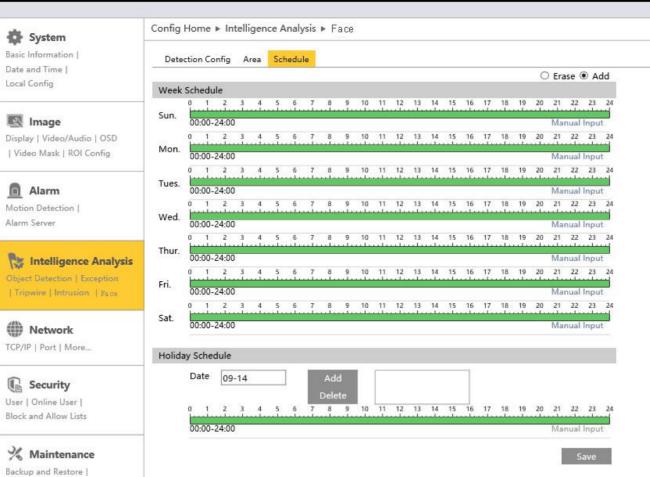
Face capture schedule setting interface

IE Client Setting

Support face capture in corridor mode

Point Selection & Installation Requirements(Camera)
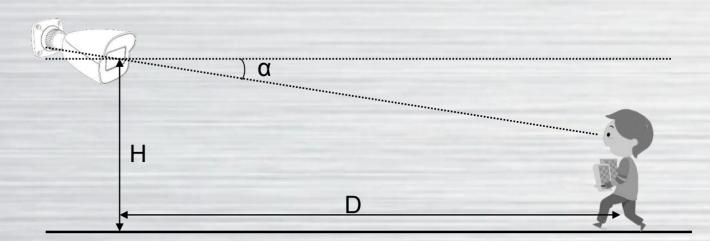
Camera Installation Requirements

Recommended camera installation requirements:
1. The camera is installed in front of the channel, and capture the face from straight front.
2. Installation height H is about 2.0~3.5 m (can be adjusted according to lens focus and capture distance).
3. Camera depression angle α less than or equal to 15 °.
4. The capture distance D is adjusted according to the selected camera lens focus.

Point Selection & Installation Requirements(Camera)

Camera Installation Requirements

1. In order to guarantee the captured face recognition rate, the requirement for face capture are: left or right face turn angle is less than about 30 °, pitching angle is less than 20 °.
2. Face illumination must be uniform, if the brightness is low or there is a large area of shadow, need to do the light filling.
3. When the capture scenario is backlight, the camera's BLC/HLC/WDR need to be turned on, or fill the light.
4. The face recognition do not support black & white mode for now.

Monitoring Width	Lens Focus	Best Capture Distance	Installation Height	Depression Angle
2.5m	8mm	3.8m	2.2m	10°
2.5m	12mm	5.7m	2.5m	10°
2.5m	16mm	7.6m	2.9m	10°

Remark: The lower the camera depression angle (that means the lower the installation height) we have, the better captured straight face we get.

Factors That Affect
Capture & Recognition
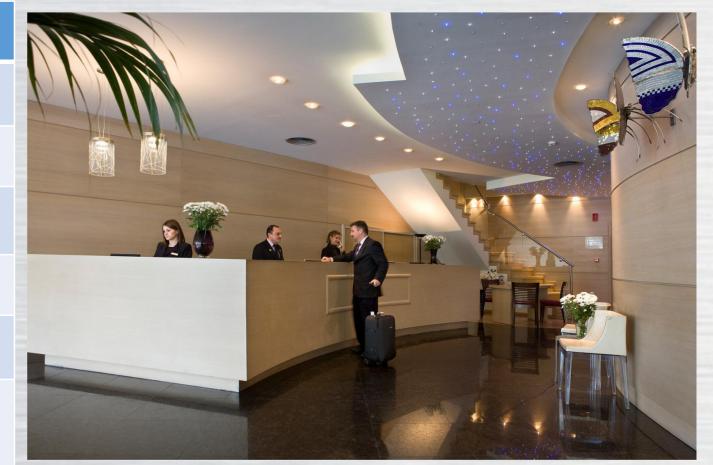
Factors That Affect Capture & Recognition

Factors	Image	Explanation
Obscured face		Wearing sunglasses, mask, hat or face is being obscured by other objects, will cause no recognition at all.
Small face, side face		The screen size of the human face is less than 1/15 screen, which can not be captured. Face pitching angle is larger than 20 °, left or right face turn angle is more than about 30 °, will lead recognition rate reduced or no recognition at all.
Low brightness face		Low brightness face or face with large area of shadows, will cause low accurate recognition.
Low resolution face		Double image face, low resolution face will caused no recognition.
Black & white face		The face recognition do not support black & white mode for now.

Typical Scenario Installation Instructions

Typical Scenario Installation Instructions

Hotel

Install Height	2.5m
Install Angle	Depression angle about 7°
Install Mode	Ceiling Mode
Lens Focus	12mm
Capture Distance	2~7m
Screen Occupation Ratio	8%~20%
Other	White light compensation in straight front

Typical Scenario Installation Instructions

Banking

Install Height	2.5m
Install Angle	Depression angle about 10°
Install Mode	Ceiling Mode
Lens Focus	16mm
Capture Distance	2~10m
Screen Occupation Ratio	8%~20%
Other	Corridor mode, white light compensation in straight front

Typical Scenario Installation Instructions

Video Survillance

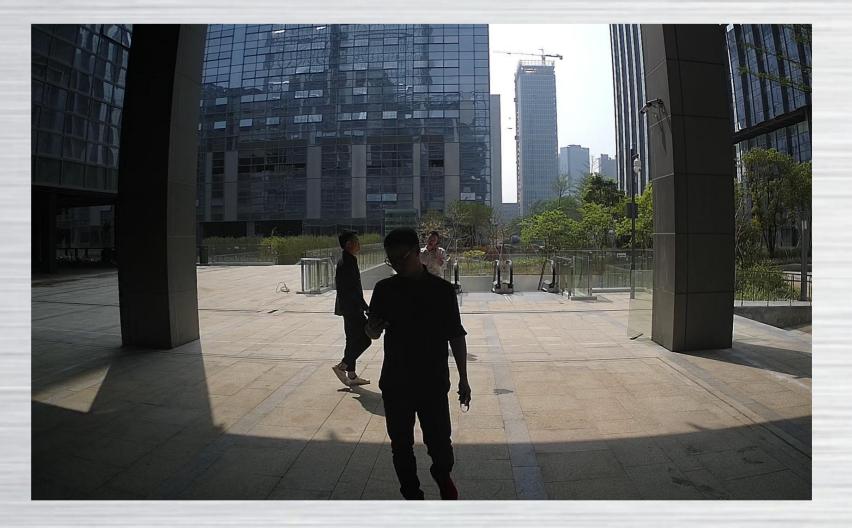| Install Height	2.5m
Install Angle	Depression angle about 10°
Install Mode	Ceiling Mode
Lens Focus	16mm
Capture Distance	2~10m
Screen Occupation Ratio	8%~20%
Other	Cloudy, white light compensation in straight front at night

Not Recommended
Scenarios

Not Recommended Scenarios

Airport, train station, bus station, subway entrance and exit, square, hall and other large population density areas are not suitable for use.

Not Recommended Scenarios

Backlight scene, face brightness is too low, face cannot be detected, not suitable for use.

Not Recommended Scenarios

At the intersection, the face pixel is too small and the shooting Angle is too big, is not suitable for use.